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10/648,329

08/27/2003

Sung-Ro Go

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EXAMINER

GIESY, ADAM

ART UNIT

PAPER NUMBER

2627

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DELIVERY MODE

03/17/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| | | | |
|------------------------------|--------------------------------------|------------------------------------|--|
| Office Action Summary | Application No. 10/648,329 | Applicant(s) GO, SUNG-RO | |
| | Examiner ADAM R. GIESY | Art Unit 2627 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 18 December 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-5,9,11 and 15-17 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-5,9,11 and 15-17 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 27 August 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-5, 9, 11, and 15-17 are rejected under 35 U.S.C. 102(b) as being anticipated by Bradford (US Pat. No. 3,423,524).

Regarding claim 1, Bradford discloses a disc drive which records data on a disc, the disc drive comprising: a clock generator which generates a clock signal that is synchronized with a transmission speed of a received signal (see Figure 3, element 44); a pickup unit which records recording data corresponding to the received signal on the disc (16); a recording processing unit which converts the received signal into the recording data by synchronizing with a clock signal generated from the clock generator and provides the converted recording data to the pickup unit (44); a spindle motor which rotates the disc (12); a spindle motor driving unit which controls a rotation speed of the spindle motor by using the clock signal generated from the clock generator (43), wherein the received signal is from a channel receiver without an additional medium between the channel receiver and the disc drive (see Figure 3 – note that the video signal with sync pulses, element 44', is sent directly to the recording means, element 16).

Regarding claim 2, Bradford discloses all of the limitations of claim 1 as discussed in the claim 1 rejection above and further comprising a decoder which detects an identifying signal indicating a transmission speed of the received signal, provides the detected identifying signal to the clock generator, transmits the received signal to the recording processing unit, and the clock generator generates the clock signal that is synchronized with the identifying signal (see Figure 3, element 44; see also column 10, lines 32-44 - note that video signal source generates the data signal with an encoded sync pulse in it).

Regarding claim 3, Bradford discloses all of the limitations of claim 2 as discussed in the claim 2 rejection above and further that the identifying signal is a periodic signal (see column 10, lines 35-38 – note that a sync pulse is periodic).

Regarding claim 4, Bradford discloses all of the limitations of claim 1 as discussed in the claim 1 rejection above and further that the recording processing unit comprises an encoder which encodes the received signal (inherently disclosed by Figure 3, element 44; see column 10, line 70 thru column 11, line 17 – note that the channel receiver outputs a composite video signal which must inherently be encoded in order to be recorded by element 16 in Figure 3).

Regarding claim 5, Bradford discloses all of the limitations of claim 1 as discussed in the claim 1 rejection above and further that the clock generator comprises a phase locked loop circuit (inherently disclosed – see column 9, lines 8-10).

Regarding claim 9, Bradford discloses a disc drive which records data on a disc, the disc drive comprising: a pickup unit which records recording data corresponding to a

received signal on the disc (Figure 3, element 16); a recording processing unit which converts the received signal into the recording data by synchronizing with a transmission speed of the received signal and provides the recording data to the pickup unit (44); a decoder which detects an identifying signal capable of indicating the transmission speed of the received signal and transmits the identifying signal to the recording processing unit (see Figure 3, element 44; see also column 10, lines 32-44 - note that video signal source generates the data signal with an encoded sync pulse in it); a spindle motor which rotates the disc (12); and a spindle motor driving unit which controls a rotation speed of the spindle motor by synchronizing with the identifying signal (43), wherein the received signal is from a channel receiver without an additional medium between the channel receiver and the disc drive (see Figure 3 – note that the video signal with sync pulses, element 44', is sent directly to the recording means, element 16).

Regarding claim 11, Bradford discloses all of the limitations of claim 9 as discussed in the claim 9 rejection above and further that the identifying signal is a periodic signal (see column 10, lines 35-38 – note that a sync pulse is periodic).

Regarding claim 15, Bradford discloses a method of controlling a recording speed of a disc drive capable of recording data on a disc, comprising: generating a clock signal that is synchronized with a transmission speed of a received signal (see Figure 3, elements 44 and 44' – note that the sync and video signals are combined into signal 44'); converting the received signal into recording data that is to be recorded on the disc by synchronizing with the clock signal (column 10, lines 32-44); recording the

converted recording data on the disc (see column 10, line 10); and controlling a rotation speed of a spindle motor that rotates the disc by synchronizing with the clock signal (column 10, lines 24-31), wherein the received signal is from a channel receiver without an additional medium between the channel receiver and the disc drive (see Figure 3 – note that the video signal with sync pulses, element 44', is sent directly to the recording means, element 16).

Regarding claim 16, Bradford discloses all of the limitations of claim 15 as discussed in the claim 15 rejection above and further that the generating the clock signal comprises: detecting an identifying signal capable of indicating the transmission speed of the received signal (performed by Figure 3, element 44; see also column 10, lines 32-44); and generating a clock signal that is synchronized with the identifying signal (column 10, lines 32-44).

Regarding claim 17, Bradford discloses all of the limitations of claim 16 as discussed in the claim 16 rejection above and further that the identifying signal is a periodic signal (see column 10, lines 35-38 – note that a sync pulse is periodic).

Response to Arguments

3. Applicant's arguments with respect to claims 1, 9, and 15 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- a. Davis et al. (US Pat. No. 5,809,006) discloses an apparatus for direct signal recording to an optical disc.
 - b. Ogura et al. (US Pat. No. 5,294,997) discloses an apparatus for direct signal recording.
 - c. Van Lier (US Pat. No. 4,750,055) discloses record carrier for a video storage signal.
 - d. Nagai et al. (US Pat. No. 4,864,423) discloses a recording means for a video signal.
5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to ADAM R. GIESY whose telephone number is (571)272-7555. The examiner can normally be reached on 8:00am- 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wayne R. Young can be reached on (571) 272-7582. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ARG 3/6/2008

/Adam R. Giesy/
Examiner, Art Unit 2627

/Wayne R. Young/
Supervisory Patent Examiner, Art Unit 2627